

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0004	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard East Levee Yolo Bypass	A	2.01						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.14			
<i>LMA Totals:</i>	0.00	0.00	0.00	0.00%	0.14	0.00	0.00	0.00

Unit No. 01 Yolo Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0004	A	2.01						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.14			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.14	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Sacramento Maintenance Yard East Levee Yolo Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Left	2.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/10/2018 - 4/10/2018		11/7/2018 - 11/7/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0004_01_s_2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0004_01_s_2013_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0004_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has a written response plan and regular flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start	0.01	Rating **	M	Issue No.	2
LM End	0.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.765181°	38.763164°
				-121.635131°	-121.635438°
DWR ID	DWR_ST0004_01_f_2018_2				
Comment Code					
DT : Ditch					
Inspector Comment					
Landowner has dug irrigation ditch within landside easement.					

Photo 1 of 1 : FA_2018_ST0004_41_2_20181108_00004.jpg



View of irrigation ditch near the landside toe. Fall 2018.

LM Start	1.51	Rating **	A/W	Issue No.	1
LM End	1.51	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.743573 °	38.743573 °
				-121.634128 °	-121.634128 °
DWR ID	DWR_ST0004_01_f_2016_1				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on a side of a ditch toward LS toe caused by water coming out of irrigation canal. Recommend monitoring.					

Photo 1 of 3 : FA_2018_ST0004_41_1_20180904_00001.jpg



Updated view of erosion on toe road. Fall 2017.

LM Start	1.51	Rating **	A/W	Issue No.	1 (cont)
LM End	1.51	Issue Type +	Ob	Location *	LS

Photo 2 of 3 : FA_2018_ST0004_41_1_20180904_00002.jpg



Irrigation ditch erosion on landward side toward LS levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start	1.51	Rating **	A/W	Issue No.	1 (cont)	
LM End	1.51	Issue Type +	Ob	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.743573 °	38.743573 °	
				-121.634128 °	-121.634128 °	
DWR ID	DWR_ST0004_01_f_2016_1					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion on a side of a ditch toward LS toe caused by water coming out of irrigation canal. Recommend monitoring.						

Photo 3 of 3 : FA_2018_ST0004_41_1_20180904_00003.jpg



Irrigation ditch erosion caused by water flowing from perpendicular irrigation canal. Fall 2016.

LM Start	1.71	Rating **	A/W	Issue No.	6	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.740710 °	38.740710 °	
				-121.633981 °	-121.633981 °	
DWR ID	838					
Comment Code						
Inspector Comment						
FS_ID:53253						
DS_ID:838						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/16/17 Ted Skidgel, pipe is closed on w/s and closed on L/S. Mud removed recently from WS pipes.						
FIELD_STRUCT_DESC: 1 of 2: 48-inch corrugated metal drainage pipe through the levee, 28.5 feet below the crown. 30-inch steel pipe sleeved through the 48-inch pipe. Slide gate in a 60-inch pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1981. USACE Sacramento O&M Manual 123, August 1955, (Station 382+85)]. No permit or as-built drawing available.						
FS Date: 11/21/2018 8:31:59 AM						

Photo 1 of 3 : UCIP_FA_2018_53253_60261.jpg



Waterside view: overview CMP standpipe and water body

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start	1.71	Rating **	A/W	Issue No.	6 (cont)	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.740710 °	38.740710 °	
				-121.633981 °	-121.633981 °	
DWR ID	838					
Comment Code						
Inspector Comment						
FS_ID:53253 DS_ID:838 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/16/17 Ted Skidgel, pipe is closed on w/s and closed on L/S. Mud removed recently from WS pipes. FIELD_STRUCT_DESC: 1 of 2: 48-inch corrugated metal drainage pipe through the levee, 28.5 feet below the crown. 30-inch steel pipe sleeved through the 48-inch pipe. Slide gate in a 60-inch pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1981. USACE Sacramento O&M Manual 123, August 1955, (Station 382+85)]. No permit or as-built drawing available. FS Date: 11/21/2018 8:31:59 AM						

LM Start	1.71	Rating **	A/W	Issue No.	6 (cont)
LM End	1.71	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_53253_60260.jpg



Waterside view: steel pipe and concrete headwall

Photo 3 of 3 : UCIP_FA_2018_53253_60259.jpg



Waterside view: overview steel pipes and concrete headwall

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start	1.71	Rating **	A/W	Issue No.	7	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.740686 °	38.740686 °	
				-121.633979 °	-121.633979 °	
DWR ID	840					
Comment Code						
Inspector Comment						
FS_ID:53254 DS_ID:840 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 48-inch corrugated metal drainage pipe through the levee, 28.5 feet below the crown. 30-inch steel pipe sleeved through the 48-inch pipe. Slide gate in a 60-inch pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1981. USACE Sacramento O&M Manual 123, August 1955, (Station 382+85)]. No permit or as-built drawing available. FS Date: 11/21/2018 8:34:20 AM						

LM Start	1.71	Rating **	A/W	Issue No.	7 (cont)
LM End	1.71	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_53254_60269.jpg



Waterside view: overview of CMP standpipe and water body

Photo 2 of 3 : UCIP_FA_2018_53254_60268.jpg



Waterside view: mud clogged pipe, trash rack and headwall

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard East Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	2.01	11/07/2018 11/07/2018	Zach Jojola

LM Start	1.71	Rating **	A/W	Issue No.	7 (cont)	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.740686 °	38.740686 °	
				-121.633979 °	-121.633979 °	
DWR ID	840					
Comment Code						
Inspector Comment						
FS_ID:53254						
DS_ID:840						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 2 of 2: 48-inch corrugated metal drainage pipe through the levee, 28.5 feet below the crown. 30-inch steel pipe sleeved through the 48-inch pipe. Slide gate in a 60-inch pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1981. USACE Sacramento O&M Manual 123, August 1955, (Station 382+85)]. No permit or as-built drawing available.						
FS Date: 11/21/2018 8:34:20 AM						

Photo 3 of 3 : UCIP_FA_2018_53254_60267.jpg



Waterside view: overview pipes and headwall

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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